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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/730,199	12/05/2000	Donald J. Kerfeld	10247US01	7264	
7590 01/19/2005			EXAM	EXAMINER	
Attention: Eric D. Levinson			BERNATZ, KEVIN M		
Imation Corp.					
Legal Affairs			ART UNIT	PAPER NUMBER	
P.O. Box 64898			1773		
St. Paul, MN 55164-0898			DATE MAR ED: 01/19/2009	ς.	

Please find below and/or attached an Office communication concerning this application or proceeding.

		W ^				
	Application No.	Applicant(s)				
	09/730,199	KERFELD ET AL.				
Office Action Summary	Examiner	Art Unit				
	Kevin M Bernatz	1773				
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mai earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) dayed will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
	is action is non-final.					
3) Since this application is in condition for allow	·—					
Disposition of Claims		·				
4) ☐ Claim(s) 1,3-17 and 21-32 is/are pending in (a) 4a) Of the above claim(s) is/are withdrest is/are withdrest claim(s) 29 is/are allowed. 6) ☐ Claim(s) 1,3-17,21-28 and 30-32 is/are reject 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and	rawn from consideration.					
Application Papers						
9) The specification is objected to by the Examir	ner.					
10) The drawing(s) filed on is/are: a) □ ac	ccepted or b) \square objected to by the E	Examiner.				
Applicant may not request that any objection to the	e drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corre						
11)☐ The oath or declaration is objected to by the I	Examiner. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the priority documents. * See the attached detailed Office action for a list. 	nts have been received. nts have been received in Application fority documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06 Paper No(s)/Mail Date 	<u></u>	atent Application (PTO-152)				

DETAILED ACTION

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Response to Amendment

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

- 2. Claims 1, 3 6, 11 17, 21 28 and 30 32 are rejected under 35

 U.S.C. 103(a) as being unpatentable over Lee et al. (U.S. Patent No. 5,202,880) in view of Lewis et al. (U.S. Patent No. 4,519,065), Davis et al. (WO 00/48172) and Ueda et al. (U.S. Patent No. 5,481,530) for the reasons of record as set forth in Paragraph No.'s 3 36 of the Office Action mailed on August 12, 2004.
- 3. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. as modified by Lewis et al., Davis et al. and Ueda et al. as applied above, and further in view of Anderson et al. (U.S. Patent No. 4,304,806) for the reasons of record as set forth in Paragraph No.'s 37 41 of the Office Action mailed on August 12, 2004.
- 4. Claims 8 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. as modified by Lewis et al., Davis et al. and Ueda et al. as applied above, and further in view of Kirino et al. (U.S. Patent No. 5,703,855) for the reasons of record as set forth in Paragraph No.'s 42 46 of the Office Action mailed on August 12, 2004.

Allowable Subject Matter

5. The following is a statement of reasons for the indication of allowable subject matter: claim 29 is allowable for the reasons of record as set forth in Paragraph No.'s 47 – 49 of the Office Action mailed on August 12, 2004.

Response to Arguments

6. The rejection of claims 1, 3 – 17, 21 – 28, 30 - 32 under 35 U.S.C § 103(a) – Lee et al. in view of various references

Applicant(s) primarily argue(s) that the Examiner "failed to explain why a person of ordinary skill in the art would have found it necessary to replace Al as the reflective layer" (pages 3 - 6 of response). The Examiner respectfully disagrees.

The Examiner notes that Al and Cr are known equivalents as evidenced by the art of record. Substitution of equivalents requires no express motivation as long as the prior art recognizes the equivalency. In re Fount 213 USPQ 532 (CCPA 1982); In re Siebentritt 152 USPQ 618 (CCPA 1967); Graver Tank & Mfg. Co. Inc. v. Linde Air Products Co. 85 USPQ 328 (USSC 1950).

Applicants further argue Davis "appears to add nothing beyond the similar teaching of Lee, addressed above" (page 3 of response). The Examiner notes that Lewis et al. is directed to primarily an optical disk while Davis et al. teaches that one of ordinary skill in the art would recognize the similarity in many of the layers in "recording media", including optical, magneto-optical and magnetic.

Additionally, applicants argue that "Lewis and Lee references are totally unrelated" given that Lee is related to magneto-optic media and Lewis is related to embossable media (page 4 of response). The Examiner respectfully disagrees.

First, the Examiner notes that applicants' claims are directed to generic "storage media", which encompasses magnetic, magneto-optic and optical media. Second, the Examiner notes that one of ordinary skill in the art, as supported by the art of record, especially Davis et al., would be well versed in the comparative structure of the various types of media. Since the vast majority of layers in a "recording media" perform the substantially identical functions regardless of the recording layer used, the Examiner deems that one of ordinary skill attempting to improve one area of storage media would be motivated to look in the related fields to discover improvements that would apply equally to all storage media applications. As rudimentary examples, the Examiner notes that all storage media benefit from improved substrates, protective layers and lubricant layers, among other aspects.

Finally, applicants argue that regarding claim 11, "Lee shows grooves, not protrusions" and that "[s]urface variations that form grooves are clearly not protrusions" (page 5 of response). The Examiner respectfully disagrees.

The Examiner notes that for every groove, there must be a corresponding "land" or "peak". These "lands" or "peaks" are protruding above the surface level in the grooves, and hence read on the language of "protrusions". See Figure I below.

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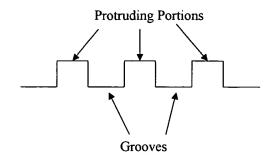


Figure I: Illustration of "grooves" and corresponding "protrusions"

Conclusion

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M Bernatz whose telephone number is (571) 272-1505. The examiner can normally be reached on M-F, 9:00 AM - 6:00 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KMB January 17, 2005

Primary Examina